



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 p.m. in place of the RARS net.
- RARS meets for a monthly dinner on the First Tuesday of each month.

2014 PUBLIC SERVICE EVENTS

Makin' Room for Turkey Ride
2014: Nov. 23

Interested in helping? Visit <http://www.rars.org/public-service.php> for more information.

RARS General Meeting

Topic: Elections and Program: "Frequency Standards and Accurate Frequency Measurement" by Doug Hall, K4DSP

Date: Tuesday, November 11, 2014

Time: Meeting at 7:30 p.m.

Informal gathering and refreshments from 7-7:30 p.m.

Where: Ridge Road Baptist Church, 2011 Ridge Rd., Raleigh
VE License Exams start at 5:30 p.m.

Additional Instructors Needed

By Murray Merner, K4MHM
Education Director



Last year we conducted four Technician Class courses and one General Class course. This year we have conducted two Technician courses, one General course, and one Amateur Extra course. That results in 15 and 14 Saturday mornings respectively, plus development time.

The Technician Class course had been developed for a few years but the General Class and Extra Class were both new. Now, the Technician Class course needs to be updated since there are new questions in the Question Pool, and there is a new manual as of June 30, 2014.

The current General Question Pool will expire June 30, 2015, requiring an update after that date. Mike Murphy, WA4PBJ, has been the instructor for many years.

Due to the increase in the number of courses and covering all three classes of license, we are looking for some help.

See **Additional Instructors**, p. 5

RARS Officers

PRESIDENT

Candy Orr
NC4CJ
919.217.7734
cjorr@bellsouth.net

VICE PRESIDENT

Tom Lewis
N4TL
n4tl2@yahoo.com

SECRETARY

Bob Chew
KI4YXM
919.782.5778
rlchew@mindspring.com

TREASURER

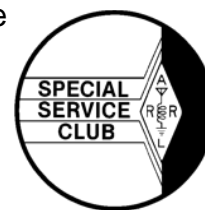
Greg Seamster
KE4PAX
919.859.0029
ke4pax@arrl.net



The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.



Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The *Exciter* is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The *Exciter* welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's *Exciter* is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the *Exciter* are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Cathy Downs, KA3QPU, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church

2011 Ridge Road
Raleigh, NC, 27607

Time: People begin arriving at 7 p.m.
The meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

Join us on the **first** Tuesday of each month for the RARS dinner. It's open to everyone: RARS members, non-members, friends, and family. Feel free to bring your little ones! Dinner begins at 6:30 p.m.

Listen to the nightly RARS net and check www.rars.org for details on the next dinner's location.

RARS Repeaters in Raleigh

146.640 & 443.625 (88.5 PL)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

VE Testing

The RARS VEs will accept walk-in testing in May, August and November (location to be announced); the RARSFest in April; the Cary Swapfest in July; the JARSFest in November; and following RARS license classes.

Please bring a photo ID, your current license, a copy of your current license, your \$14 exam fee, and any CSCEs you have for credit. Visit www.rars.org for more information.

Message from the President

Have you ever gone to a RARS meeting, and you recognize a face but the name escaped you? That happens to me ALL THE TIME!

So, I generally wander on over and glance from the corner of my eye to check out the name badge. It is always a bummer when there is no name badge!

The RARS Board of Directors has developed a clever plan. First, we will encourage everyone to wear their permanent name badge at every meeting.

Forgot yours? No problem! We will provide a paper stick-on.

BUT..we need to be able to recognize from your paper name badge that you are a member and not a visitor.

This is where we need your help. We will provide color-coded labels to add to your paper label. If you are a...

1. RARS member we want you to add a red circle label to your paper name badge;
2. brand new RARS member, please add a green sticker for the first meeting ONLY (after that you can switch to red);
3. guest but not a member or first time visitor? You get a blue sticker!

Please help me out here. I promise I will wear my badge for you, if you will wear yours for me!

73,

C.J., NC4CJ

RARS President

2014-2015 Meeting Topics

Elections; "Frequency Standards and Accurate Frequency Measurement."

Doug Hall, K4DSP.....Nov. 11

Holiday Party.....Dec. 9

World Radiosport Team Championship, July 8-14, 2014 (www.wrtc2014.org & pvrnc.org).....Jan. 13

Nate Morschi, N4YDU President of PVRC-NC.

"How Antennas Radiate".....Feb. 10

Dan, WY3O, head of NCSU Department of Electrical and Computer Engineering

Awards, Birthday Party & RARSfest Update...Mar 10
TBD

Titles, topics, and speakers subject to change.

New Hams Meeting

By Murray Merner, K4MHM

We are here to help the new ham. Amateur Radio can be a little daunting for the new ham—we have all been there. At the new ham meeting, you can meet other new hams in RARS and express your needs and get some help.



Join us at **6:00** before the regular meeting on the second Tuesday of the month. We also invite Elmers to attend. You can also contact our Elmers by going to the RARS website and going to the "Members Only" section.

2014-15 Hamfests & Conventions

BEACHFEST 2014 | Nov. 8

Location: Conway, SC

Website: <http://www.w4gs.org>

JARSFEST 2014 | Nov. 16

Location: Benson, NC

Website: <http://jars.net>

North Carolina State Convention (43rd Annual RARSfest) | Apr. 4

New RARS Members

Matt Schneider	KV4LM
Dave Henderson	KK4QEH
Cyrus Yunker	AK4XC
Hariharan Gopalan	KK4JCT
Poorvi Hariharan	No Call
Tilia Salo	KM4CMQ
Rich Landsman	N1DDY

November Birthdays

Stephen	KK4ZfZ	11/01
Gary	KE4DNL	11/01
Joe	WA4GIR	11/02
Clayton	KE4DOX	11/07
Carroll	KD4JH	11/07
Jeff	AC4ZO	11/08
Rich	NC4EN	11/11
Chris	N3JHR	11/14
Joshua	KF4ZXK	11/15
Glenn	NC4NC	11/16
Rolf	K8SL	11/19
Ken	WA4JJW	11/21
Mark	WD4KSE	11/21
Donald	KJ4DNI	11/21
Scott	KI4OCF	11/24
Bill	KG4CXY	11/24
Terri	N4ZUD	11/25
Doug	N3LTV	11/26

Location: Raleigh, NC

Website: <http://www.rars.org/rarsfest>

Blue Ridge ARS's 56th Annual Hamfest | May 2

Location: Spartanburg, SC

Website: <http://brars.org>

Roanoke Division Convention (Shelby Hamfest) | Sept. 5

Location: Shelby, NC

Website: <http://shelbyhamfest.org>



Amateur Extra Course

*By Murray Merner, K4MHM
Education Director*

We completed the five-session Amateur Extra Class course on Nov. 1. We had 17 registered students, seven of whom took the exam after the last session; five passed. An Extra student who did not yet have a General license took the General exam and passed, but did not attempt the Extra exam. Another student took the test before the course ended, and he passed. Others will take the exam at JARSfest in Benson on Nov. 16.

The Technician Class course will be in February due to the new Question Pool and ARRL manual. I anticipate that both the Technician and the General courses will be extended to four sessions and the Extra to six sessions.

Additional Instructors, continued from p. 1

Mike will do the update of the Technician Class course, which is tentatively scheduled for February 2015.

A schedule for 2015 will be available before the end of the year. Our plan is to have the additional instructor observe Mike teach the revised Technician course in February. (The Technician Class will be expanded to four sessions.)

The new instructor will do the next Technician course following Mike's format when it is scheduled. Mike will continue to

Solving an RFI Problem

*By Tom Lewis, N4TL
Vice President*

Here's how I fixed an RFI problem at my house. The U-verse® TV box was generating a lot of noise on the AM broadcast band. I could hear this noise, which was being conducted on the AC power wiring, as I walked around the house with a transistor radio. The noise was much louder near the AC power sockets.

I tried toroid cores from scrap computer equipment, but they did nothing to reduce the noise. After reading a paper by Jim Brown K9YC that I found on the internet, I learned about new type-31 material that works from 1 to 300 MHz. I ordered four cores from Amidon. I



wrapped all of the DC power cord for the U-verse® box around one of the new cores, which solved the problem quite nicely. Now I can receive 740 AM from Canada at night on my old radios!

Jim Brown's paper is located here: <http://audiosystemsgroup.com/RFI-Ham.pdf>

The part number of the Amidon cores is FB-31-24001, They are \$10 each. Their website is: www.amidoncorp.com.

teach the General Class and Amateur Extra Class courses.

Some RARS members have expressed an interest in becoming an instructor. Please contact me at mmmm0320 @ gmail.com if you are interested.

Minutes

General Membership Meeting Raleigh Amateur Radio Society July 8, 2014

1. **Call to order:** C.J. NC4CJ called the meeting to order at 7:34 p.m.
2. **Guests:** Davis Maddox (no call sign), Russell Cole (no call sign), Dan N4EA, Glen KM4BJW, Stan WA2KQY, David W4DJK, Jimmy Crawford (no call sign) and Chuck KD5KA.
3. **Approval of minutes:** The Minutes of the RARS General Membership meeting in June 2014 were approved.
4. **Secretary's report (Bob K4YXM):** no report
5. **Treasurer's report (Greg KE4PAX):** Greg KE4PAX reported that. RARS has ended the year with 363 members. Currently, 236 members have renewed. Greg also reviewed our assets and summarized income and expenses to date. If anyone has any questions, please contact Greg KE4PAX or C.J. NC4CJ for further information. Greg told the membership that the board had not approved the budget at its May meeting do to not having a quorum. The board did approve the budget at the June meeting. To conform to the bylaws, the general membership must approve the budget as approve by the board. The general membership approved the budget as presented.
6. **Door Prizes:** Winners were: Joe N1LVN and Lisa KM4AMW.
7. **Announcements:**
 - a. Upcoming RARS events and hamfests: C.J. NC4CJ reminded everyone to see the Exciter or the ARRL website for further information
8. **Reports from RARS Board members and others:**
 - a. **Public Service:** John AI4RT asked people to review the schedule on the RARS website and sign up for events. The next event is in Wake Forest.
 - b. **Education:** Murray K4MHM Reviewed plans for upcoming General Class in August and an Extra Class in October followed by another Technician Class in November. He is working on establishing an "Elmers" list for new members.
 - c. **ARRL:** Karl W4CHX asked everyone to go to the ARRL web site ad set up a profile.
 - d. **Field Day:** Dennis NC4CK reported on Field Day activities. He expressed thanks to all who participated.
9. **Any other business:** None.
10. **Program:** Tom introduced Dr. Hayes who presented our program.
11. **Adjournment:** The meeting was adjourned at approximately 8:53 p.m.

RARS Classifieds

Want to purchase a "new" but used piece of ham equipment? Do you want to sell some gear? Browse the RARS classifieds for amateur radio equipment at <http://rars.org/classifieds.php>.

RARS members may post notices about equipment they are selling. Posts last for 30 days and are editable at any time.



Minutes

General Membership Meeting Raleigh Amateur Radio Society August 12, 2014

1. **Call to order:** C.J. NC4CJ called the meeting to order at 7:35 p.m. There were 53 people in attendance.
2. **Guests:** Nathan Barnes and Tom Theriot who just passed their Tech exam. David KK4QEH and David Johnson (no call sign).
3. **Approval of minutes:** The minutes of the previous meeting were not available for consideration for approval.
4. **Secretary's report (Bob K4YXM):** no report
5. **Treasurer's report (Greg KE4PAX):** Greg KE4PAX reviewed our assets and summarized income and expenses to date. If anyone has any questions, please contact Greg KE4PAX or C.J. NC4CJ for further information.
6. **Door Prizes:** Wilber WD4RDT and Greg KE4PAX
7. **Reports and announcements from RARS Board members and others:**
 - a. **Public Service:** John AI4RT asked people to review the schedule on the RARS website and sign up for events.
 - b. **Education:** Murray K4MHM Reported that the General Class course is completing this Saturday with an exam session in the afternoon. An Extra Class is planned for October. He is working on establishing an "Elmers" list for new members. The plan is to establish this list on the RARS web site.
 - c. **Section Mgr. Report:** Karl W4ACHX reported on HR4969. Karl stated that this report and request was intended for ARRL members only. ARRL members were urged to express their support for HR 4969 to their congressional representatives.
 - d. **Repeater Chair:** Karl W4CHX. Repairs and upgrades of shack at Bayleaf are complete. All RARS repeaters and controllers have been configured. Karl reviewed status of interlink radios needed to update the "64" and "13" repeaters. These machines will not be updated and installed until this is resolved. The machine at Bayleaf will be installed and made operational first.
 - e. **NC QSO party:** Marty W4MY reported that there is an opening on the committee. Anyone interested in being on the NCQP committee should contact Marty.
 - f. **New Bern MS bicycle ride:** Mandy and Caroline from the MS society expressed thanks for RARS support of the ride and encouraged everyone who could participate to do so.
8. **Any other business:** None.
9. **Program:** Fred N3FRP conducted a program on WINLINK.
10. **Adjournment:** The meeting was adjourned at approximately 8:44 p.m.

Minutes

Board of Directors Meeting Raleigh Amateur Radio Society August 19, 2014

Present: C.J. NC4CJ, Bob K4YXM, Bill AK4BL, Joanne AK4RJ, Murray K4MHM, John AI4RT, Chuck K4HF, Charles KM4AMT

Apologies: Greg KE4PAX, Karl W4CHX, Cathy KA3QPU, Hank K4HM

1. **Call to order (C. J. NC4CJ):** CJ NC4CJ called the meeting to order at 7:04 p.m. There was a quorum present.
2. **Approval of minutes (C.J. NC4CJ):** The Minutes of the July Board Meeting (July 15, 2014) were approved with corrections (mostly typos noted).
3. **Vice President's report (Tom N4TL):** No Report.
4. **Treasurer's report (Greg KE4PAX):** RARS currently has 298 members. 80 members have not renewed.
5. **Secretary's report (Bob K4YXM):** No Report.
6. **Committee Reports:**
 - a. **ARRL liaison (Chuck K4HF):** Curt Phillips (W4CP), Karl Bowman (W4CHX) and Jerry Agliata (W2GLA) attended the ARRL National Centennial Convention.
 - b. **Education (Murray K4MHM):** The General class license course was completed this past Saturday. 8 students registered, but one dropped. Of the 7 who took the exam, 4 passed (a 43% pass rate). The previous General class license course had an 80% pass rate. Murray has sent the participants a course survey to see if they can identify problem areas or suggest ways to improve the course. The Extra Class is Oct. 4th and the next Tech. class is Nov. 15th. Five hams have signed up to help with the Elmer program.
 - c. **Exciter Chair (Cathy KA3QPU):** No Report.
 - d. **Field Day Chair (Dennis NC4DK):** Dennis reported 35 participants and provided a list of the scores for bands 3.5, 7, 14, 21, 50 and 144. Dennis discussed how he did not receive everyone's data by the deadline for submission to ARRL. We will not know the final results (our ranking) until November.
 - e. **Food Services Chair (Joanne):** Joanne reported that she still has leftover soft drinks and water from Field Day and we are receiving donations at each chapter meeting.
 - f. **FM Repeater Chair (Karl W4CHX):** No Report.
 - g. **Hospitality Team:** Bill (AK4BL) reported that Raymond has been doing an excellent job as our meeting sign-in registrar. Murray (K4MHM) discussed the various sign-in sheet designs that have been used recently and how this is still a work in progress.

Bill (AK4BL) discussed how we should be more than a repeater club and we recalled how the club once had HF emphasis and there might be a resurgence of same. Bill took the action to develop some ideas he has and submit it to the Board in an email.

One of our At-Large Directors (Jack N6UYB) has resigned. The board voted to extend out thanks for his several years of service to RARS and wish him the best in the future.
 - h. **Net Manager (Mary KG4OQA):** No report.
 - i. **North Carolina QSO Party (Marty W4MY):** No report, but we did note that Marty is accepting resumes for candidates interested in filling an open team member position.

- j. **(Vacant) Information Officer:** Charles Good (KM4AMT) is considering this position. We will need to adopt provisions about the 1 year RARS member provision.
 - k. **Public Service Director (John AI4RT):** John gave a quick recap of upcoming events and discussed how public service is less active in the Fall. John discussed how RARS is a contributing sponsor at many events (ARRL uses an average of \$19 per person per hour). John plans to follow up with future event coordinators about listing RARS as a contributing sponsor on T-shirts and banners.
 - l. **RARS VE Coordinators (Joe WA4GIR and Liz KO4CK):** No report, but Dennis (NC4DK) serves as a VE Coordinator and he discussed the next exam date and place.
 - m. **Webmaster (Hank K4HM):** Hank submitted a written report that all attempts to gain access to the owner account for our Yahoo! Group have been unsuccessful. Attempts by Hank to contact former RARS webmasters and group owners has also been unsuccessful. He will continue to work on this. If all else fails, we will need to shutdown our existing group and create a new one. We discussed ways we should ensure that we no longer have only one person who knows how to access the account.

Hank also reported receiving a notice from our Internet Service Provider (ISP) that the service plans to close its doors in the next year. Another ISP has offered to host our site for the same price and Hank has started conversations about planning our site's migration.

We also discussed the desirability of having someone backup Hank as webmaster. Charles (KM4AMT) is not interested in being the RARS webmaster, but he was the webmaster for Occoneechee Council for 8 years and volunteered to backup Hank, if Hank is interested.
 - n. **RARSfest Chair: Vacant** – AI4RT will be unable to Chair RARSfest next year.
 - o. **W4DW/W4RNC Trustee (Jeff AC4ZO):** No Report.
7. **Old Business:** The RARS-L list needs to be updated. Questions that need to be addressed... How long should non-current members be left on the RARS-L list? We may need to set some guidelines and get clarification from Greg so we can get information for member updating.
8. **New Business:**
- a. **Nominating Committee for 2015 BoD:** Chuck (K4HF) was nominated and subsequently voted in as Nominating Committee Chair. Chuck asked John (AI4RT) and Murray (K4MHM) to serve as committee members and they both agreed.
 - b. **Chairperson of RARSfest 2015:** John (AI4RT) will be unable to serve as Chairperson of RARSfest 2015. Since the person who was serving as vice chair is not going to be able to succeed John, another candidate will have to be identified and recruited.
 - c. **Membership Committee:**

Murray (K4MHM) and Bill Mars (AK4BL) have volunteered to serve as a Membership Committee. Murray (K4MHM) recommended that we contact those who have not renewed and ask why, then encourage them to reconsider.

We also discussed how long to grant member privileges to members who have allowed their membership to lapse. The consensus was 6 months.
9. **Additional Business:** A short discussion was held about a By Laws update – No consensus.
10. **Adjournment (C.J. NC4CJ):** The meeting was adjourned at 10:22 p.m.

Minutes

General Membership Meeting Raleigh Amateur Radio Society September 9, 2014

1. **Call to order:** C.J. NC4CJ called the meeting to order at 7:35 p.m. There were 52 people in attendance
2. **Secretary's report (Bob K4YXM):** no report
3. **Treasurer's report (Greg KE4PAX):** RARS currently has 308 members. Greg KE4PAX reviewed our assets and summarized income and expenses to date. If anyone has any questions, please contact Greg KE4PAX or C.J. NC4CJ for further information.
4. **Door Prizes:** Wilber WD4RDT and Greg KE4PAX
5. **Reports and announcements from RARS Board members and others:**
 - a. **Public Service:** John AI4RT asked people to review the schedule on the RARS website and sign up for events. John also thanked the Durham repeater group for the use of their repeaters.
 - b. **Education:** Murray K4MHM reported that the Extra Class starts at the Red Cross and that a Tech class is planned for November.
 - c. **Skywarn:** Virginia NC4VA reminded people of the Skywarn net at 9:15 tonight. She also said that Spotter reports will no longer required reports of rainfall.
 - d. **New Bern MS bicycle ride:** Mandy and Caroline from the MS society expressed thanks for RARS support of the ride and encouraged everyone who could participate to do so.
6. **Any other business:** None.
7. **Program:** Tom introduced the speaker Nick K4NYW who presented a program on Naval radio Communications.
8. **Adjournment:** The meeting was adjourned at approximately 9:05 p.m.



The ARRL defines an Elmer as "someone who provides personal guidance and assistance to would-be hams."

We at RARS think this goes beyond "would-be-hams" and continues into assisting new hams.

Murray Merner is forming a core of Elmers for new hams in RARS. Please contact Murray at mmmm0320@gmail.com and volunteer to be a RARS Elmer.

Minutes

Board of Directors Meeting Raleigh Amateur Radio Society September 16, 2014

Present: Bob K4YXM, C.J. NC4CJ, John AI4RT, Chuck K4HF, Tom N4TL, Joanne AK4RJ, Bill AK4BL, Marty W4MY, Dennis NC4DK, Murray K4MHM, Charles KM4AMT

Guest: Michael KK4EIB

1. **Call to order (CJ NC4CJ):** The meeting was called to order at 7:04 p.m. There was a quorum present.
2. **Approval of minutes (CJ NC4CJ):** The minutes of the August meeting were approved as corrected.
3. **Presentation:** There was a presentation by Michael KK4EIB on the work he was doing regarding demographics of members of Amateur Radio groups. He asked if RARS would be willing to contribute details about its membership in order to improve the “confidence level or Sigma” in his work. After his presentation, Michael left the meeting. The board discussed this proposal at length and it was decided to ask Michael for additional information regarding benefits to RARS from his finished work before making a decision.
4. **Vice President’s report (Tom N4TL):** Meeting topics for the remainder of the year will be published in the Exciter.
5. **Treasurer’s report (Greg KE4PAX):** Greg reported that RARS currently has 313 members. He also summarized the status of RARS income and expenses. If anyone has questions regarding finances please see either Greg or C.J.
6. **Secretary’s report (Bob K4YXM):** No report.
7. **Committee reports:**
 - a. **ARRL liaison Chuck K4HF:** No report.
 - b. **Education Director (Murray K4MHM):** Murray reported that the Extra Class will start on October 4th. He now has ae-contacts list of people who have expressed interest in our classes. Murray is also working on an “Elmers” list that will be available to RARS members on the web site. Currently 15 names are on the list. There was discussion concerning the terms of RARS complementary membership connected to testing with our VE team.
 - c. **Exciter Chair (Cathy KA3QPU):** Send articles.
 - d. **North Carolina QSO Party (Marty W4MY):** NCQP is scheduled for March 1st 10:00 a.m. to 8:00 p.m. First committee meeting is scheduled for November 8th. Paul AA4XX has notified Marty that he will be resigning at the end of the 2015 season so we will have an open slot on the committee.
 - e. **Field Day Chair (Dennis NC4DK):** Field day is scheduled for June 27th and 28th of 2015. Andy Peterson (AA9P) will again set up an auto logging system.
 - f. **FM Repeater Chair (Karl W4CHX):** No report.
 - g. **Food Service Chair (Joanne AK4RJ):** No report.
 - h. **Net Manager (Mary KG4OQA):** No report.
 - i. **Public Service Director (John AI4RT):** Winter Public Service Nets will focus on training for events.

- j. **RARSFest Chair (vacant):** Work is progressing but no committee meeting has been called until a new chairman is selected.
 - k. **W4DW/W4RNC Trustee (Jeff AC4ZO):** No report.
 - l. **At-Large Director (Bill AK4BL):** Working with Murray to develop a protocol for greeting all individuals. Encourage everyone to wear a name badge.
 - m. **At-Large Director (Don WA4AVU):** No report.
 - n. **RARS Webmaster (Hank K4HM):**
I have been working on Elmer information with Murray.
I have reset and activated the Auction page and signup form.
I am looking at a problem Charley Brown had getting logged in due to having changed his user-id.
I have put information on the website about the Extra license classes.
I made some updates to the programs schedule provided by Tom.
I made a change to the nets schedule.
And a few other minor changes on the main page.
8. **Old business:**
a. Voted to accept Jack Foster's (N6UYB) resignation.
9. **New business:**
a. There was discussion about how long we extend membership privileges to lapsed members. It was decided to extend the current practice of continuing privileges for two months and then remove them from the RARS-I list after three.
10. **Additional Business:** None.
11. **Adjournment (CJ NC4CJ):** The meeting was adjourned at 9:56 p.m.
-

Want to be a Published Writer?

Do you like building ham radio equipment? Have figured out a way to get an antenna up in a neighborhood with covenants and restrictions? Did you participate in a marathon or bike-a-thon? How about sharing your interests, knowledge, and experience with other hams in the *Exciter*? We need both technical and non-technical articles for the *Exciter*. Short or long, we'll consider just about anything amateur radio-related.

To submit an article, just email your piece to the Editor (editor@rars.org). Please feel free to attach any appropriate pictures or graphics. Be sure to include caption information about the images and identify the people in photographs. And always obtain their permission to use their image.

We look forward to promoting our hobby and sharing information! Break out those pens, pencils, or keyboards and get writing!



Minutes

General Membership Meeting Raleigh Amateur Radio Society October 14, 2014

1. **Call to order:** C.J. NC4CJ called the meeting to order at 7:34 p.m. There were 61 people in attendance
2. **The following visitors were recognized:** Rick KA3PSK, Michael KB7NLA, Rosanna KI4OMM, James KM4DCJ, Chip WB4ZVR, Don NJ2E
3. **Approval of minutes:** The minutes of the general membership meetings of July 8, 2014, August 12, 2014, and September 9, 2014 were approved as presented.
4. **Secretary's report (Bob K4YXM):** no report
5. **Treasurer's report (Greg KE4PAX):** RARS currently has 324 members. Greg KE4PAX reviewed our assets and summarized income and expenses to date. If anyone has any questions, please contact Greg KE4PAX or C.J. NC4CJ for further information.
6. **Reports and announcements from RARS Board members and others:**
 - a. **Education:** Murray K4MHM reported that the Extra Class is underway. The Tech class is now being planned for January.
 - b. **Alan AB4OZ:** Reported that there will be a 10 meter this Saturday at 9:00 p.m. on 28.364
 - c. **Nominating Committee:** Chuck, K4HF with the assistance of Murray, K4MHM and John, AI4RT presented the following slate of officers and chairpersons for 2015. The membership will vote at the November 14 regular meeting:
 - i. **Officers:**
 1. One year term: President – Murray Merner K4MHM (to fill remainder of C.J.s term)
 2. Two year term: Vice president Tom Lewis N4TL; Treasurer Greg Seamster KE4PAX
 - ii. **Board members (one year term):**
 1. Public service director: John Snellen, AI4RT
 2. Public Information Officer: Charles Good KM4AMT
 3. RARS 2015 Hamfest Chair: vacant
 4. RARS Exciter Editor: Tom Lewis N4TL
 5. RARS Net manager: Mary Holtschneider KG4OQA
 6. At-Large Director: Bill Mars AK4BL
 7. At-Large Director: Ray LeFrancois KK4OOQ
 8. FM Repeater Chair: Karl Bowman W4CHX
 9. W4DW, W4RNC, N4RAL Trustee: Jeff Wittich AC4ZO
 10. ARRL Liaison: Chuck Littlewood K4HF
 11. Education Director: Murray Merner K4MHM
 12. RARS Webmaster: Hank Montgomery K4HM
 - iii. **Committee Chairman (one year term):**
 1. RARS Food service: Joanne Mars AK4RJ
 2. RARS NCQP: Marty Young W4MY

3. RARS 2015 Field Day: Dennis Keith NC4DK
4. RARS Volunteer Exam Coordinators: Liz and Joe White KD4CK & WA4GIR

7. **Any other business:** None.

8. **Program:** The annual RARS auction was conducted.

9. **Adjournment:** The meeting was adjourned at approximately 9:15 p.m.

Addendum to the 2015 RARS Nominating Committee Report

The Committee wishes to add the following one year positions and names to the 2015 Report contained in the Minutes of the Regular RARS Meeting of October 14, 2014:

- Director at Large: John Snellen, AI4RT
- Director at Large: Jerry Agliata, W2GLA
 - John and Jerry will coordinate the activities of the 2015 RARSfest along with the yet to be nominated RARSfest Chairperson.

The RARS By-Laws allow flexibility in the number of dually elected Directors at Large.

**Maysville
Hamfest,
October 2013**



Photos by Joanne Mars, AK4RJ

**Repeater
Building Repairs,
April and
September 2013**

LOCAL AMATEUR RADIO NETS

The **Apex Emergency Response Communications Net** meets weekly each Sunday at 9 p.m. on the 146.640 repeater. The purpose of the net is to assist ham radio operators in preparing to respond to emergencies, test their equipment, improve operating skills, pass traffic, and to provide those with a common interest an opportunity to meet. The Apex ERC Net provides amateur radio emergency communications for The Church of Jesus Christ of Latter-Day Saints' disaster relief efforts. All stations are invited to participate in this net.

Please join us on the **Carolina 440 Net** every Monday night at 7:30 p.m. This ragchew net utilizes the Carolina 440 UHF Link Repeater System. Comprised of the Raleigh, Down East, and Coastal Wilmington link systems, there are currently 19 repeaters on the system, covering 21,168 square miles. For a list of these repeaters, please visit www.carolina440.net.

Please join us each Tuesday at 9:15 p.m. on the 146.880 repeater for the **Central Carolina SKYWARN** net. On each net there are announcements, check-ins by county, and often a program or training spot. Check us out at www.centralcarolinaskywarn.net.

The **Ham Public Service Net** meets every Wednesday at 7:30 p.m. and provides a forum and discussion platform for area clubs and individual hams to connect with and learn from other local hams who are interested in Ham Public Service. The HPSN is utilizing the Carolina 440 UHF Link System. The repeaters are also accessible through IRLP Reflector 9210, node 4270. The Ham Public Service North Carolina Yahoo Groups address is: www.groups.yahoo.com/group/hpsnc.

The **PCTN (Piedmont Costal Traffic Net)** meets daily at 9 p.m. on the 146.880 repeater. The purpose of the net is to handle/pass NTS formal messages. Amateur stations are encouraged to check in and participate. The backup repeater is the 147.105 (PL tone 82.5).

The **RARS Technical & Trader's Net** is held on Saturday evenings on the 146.640 repeater at 8:00 p.m.

Join us every evening, except Saturdays, at 8 p.m. on the 146.640 repeater for the **RARS Two-Meter Net**. You can give a ragchew, check in and out (this counts for our total numbers reported to the ARRL!), make announcements, and pass traffic. We also offer National Traffic System traffic training. All licensed stations are welcome to participate in the net as often as they can. This net is also a great way to learn about amateur radio if you are newly licensed!

The **VOIP Hurricane Net** is held Sundays at 00:00 UTC on the 146.775 repeater with a tone of 88.5 (IRLP node 4260). For information about activation details, go to www.voipwx.net.

The **Wake County AUXCOMM Training Net** meets Thursdays at 8:15 p.m. on the 146.88 repeater. This net provides amateur radio operators information and training related to emergency communications and for our served agencies, such as Wake County Emergency Management. Please join us. For more information please visit <http://wake.nc.auxcomm.us/>.



RARS Classifieds

RARS Members: [Post](#) a new 30 day listing or [Edit](#) your current listings at www.rars.org/classifieds.php. The items below were listed within the last 30 days.

Diamond SX-400

Posted October 24th, 2014 by: AJ4HK

Contact: aj4hk@hotmail.com

have forsale a Diamond SX-400 SWR/Power meter.

Like new condition ,comes with power cord and instruction manual.

Asking \$85.00 or OBO

aj4hk, Dennis, 919-526-2860

50 years of radio Items for sale by W4NPN

Posted October 24th, 2014 by: W4NPN

Contact: fbW4NPN@gmail.com

From W4NPN: I need to reduce my inventory of electronics stuff which I will never live long enough to work on – the following items for sale are available for pickup in Chapel Hill. The smaller items could be shipped.

Hallicrafters SX-28A, (1946) cabinet model, with original documentation & manual. Good cosmetics. Worked fine when laid up five years ago; would need to be brought back to life gently and then minor frequency alignment. Matching loudspeaker has been repainted and the speaker has been replaced but I have the old original speaker. See <http://www.radioblvd.com/SX28Notes.html>

National NC-57 in fair condition; some corrosion inside. Works but needs some TLC to fix minor problems (probably just a good alignment). Click [here](#) to see more.

National NC-57M in somewhat rough condition. This is the AC/DC marine version which includes the 200-400kc Low Frequency band (marine band) plus MW/SW bands. Needs restoration but is an unusual model. High end of the dial is smeared. When I got it, I turned it on and heard a few weak

signals but never got around to restoring it. Has been laid up 5 years. Looks like the NC-57.

Excellent LW/MW/SW/FM table model radio: West German; "Korting – Stereomatic" model 1085-FX, s/n 10890, about 1963 vintage. Excellent cosmetics; worked fine when laid up; needs to be brought back to life gently to let the filters reform. A really good German product. 25" long, 15" high & 10" deep. Click [here](#) to see more.

Spartan model 8W10 8-tube AM/FM table model radio. About 1948 – 1950? Works. Good cosmetics but one knob is missing. Volume control could stand a shot of contact cleaner. In daily use. Click [here](#) to see more.

GE Model L663 AM/SW table model radio; 6 tubes. About 1940 – my grandfather used this during the war and for years after. Top of cabinet is rough but no separation of lamination. Has not been used for many years so will need TLC to bring it back to life. Click [here](#) to see more.

Browning-Drake Regenaformer Regen Receiver (1926). With schematic & circuit explanation. A high-end AM band 4-tube radio in a nice table model cabinet. Excellent condition inside & out. Has an RF stage, regenerative detector & two audio tubes. No tubes in it. Uses DV3 or UV-199 or 201 tubes. 301's would probably work also. This one would be easy to restore. Also, you could plug a 2n2222 transistor into the RF stage, a 2n3904 into the detector and an LM386 audio amp into the various tube sockets and run it with a 9V battery with no damage to the original set. I might try that myself! Regenaformer photo found toward the bottom of the photos [here](#).

Grebe "Synchrophase Seven" (1925) TRF-Neutrodyne AM Radio. Uses 7 tubes; one is missing. This unit is in good condition (dusty) and could be put back into service. The power cable that goes to the batteries must be replaced. See at http://www.radiomuseum.org/r/grebe_synchrophase_seven.html

Atwater Kent Type TA detector & 2-stage audio amplifier. This is a stand-alone circular chassis with the tubes and a volume control mounted on it. Contains one 200 and two 201 tubes. From the 1920's. Click [here](#) for details. Two All-American 5's, laid up five years ago; probably need new filters & caps.

Radio Shack HTX-10 10 meter 25-watt mobile transceiver. Excellent condition, with original box, mike & instructions.

Heathkit AJ-14 solid state FM tuner. Laid up five years ago. Good cosmetic condition. Click [here](#) for more info.

Yaesu FT-101 transceiver (1972) with operating and maintenance manual for parts, although it could be restored; includes desk mike, mobile mount and speaker/phone patch. Used it 32 years & laid it up. It has some minor internal corrosion from a couple of years of maritime mobile & Pacific Island duty.

Heathkit Signal Generator model IG-102 – works fine; with manual. I built it years ago. Click [here](#) for more info.

Heathkit IM-13 VTVM – the benchmount version; built by an IBM engineer. Only in Fair condition - some paint splatter & aging on it. Meter's plastic cover has scuffing. Works but +DC and -DC needle zero position aren't exactly zero. Click [here](#) to see.

VTVM – cosmetically excellent. Stored – needs to be brought back to life. Built as part of a Bell & Howell Training course. I think it's an Eico 232 with a Bell & Howell faceplate. Worked properly when stored.

TS-323/UR Frequency Meter, with calibration book. Excellent panel & inside; the outer case has some slight scarring; never repainted. This is basically the VHF/UHF version of the LF/MF/HF BC-225 heterodyne frequency meter used

during WWII and into the 1950's by the military.

Bell & Howell Labs Oscilloscope, with manual, built about 30 years ago as part of a Bell & Howell electronics training course; then stored. With construction & operation manuals. Cosmetically like new but would need to be brought back to life carefully – probably needs new filters & perhaps some capacitors.

Tubes – lots of them: What do you need?

Older IBM PC w/keyboard, mouse & Monitor, with Windows XP – works fine; good for student or home use.

Want to buy or trade for: 6Y6G or 6080 or 6AS7G or 6336 tubes, a good working frequency counter (LF/MF/HF range) and maybe a clean National HRO w/plug-in coil set.

Please respond by email to fbw4nnp@gmail.com. Frank Barnes, W4NPN

6 meter wire dipole

Posted October 23rd, 2014 by: AJ4HK

Contact: aj4hk@hotmail.com

Have a 6 meter wire dipole for sale. each leg is 58".

Total length is 122".made with 12awg stranded wire,with 2 insulators .

Asking \$25.00.

aj4hk, Dennis

Items for Sale

Posted October 22nd, 2014 by: AJ4HK

Contact: aj4hk@hotmail.com

- Icom HM-36/8 pin round Mic

Have a Icom HM-36 /8-pin round mic for sale.

In like-new condition (Mic made in China)

Asking \$40.00

MISC - APC Surge Protector

Have a APC surge protector model P7GT.

7 outlets, 6' telephone patch cable, for phone/fax/modem protection.

Has master/controlled outlets.

Asking \$20.00

Dennis, aj4hk, 919-526-2860

Antenna Sections

Posted October 16th, 2014 by: W4ZWA

Contact: w4zwa@yahoo.com

Anyone have any antenna sections? Looking for 2-3 10 foot sections for a small tower behind the house.